



#4

SEQUENCE LISTING

(1) GENERAL INFORMATION:

- (i) APPLICANT: LARRY GOLD et al.
(ii) TITLE OF THE INVENTION: HIGH AFFINITY OLIGONUCLEOTIDE
LIGANDS TO GROWTH
FACTORS

(iii) NUMBER OF SEQUENCES: 304

(iv) CORRESPONDENCE ADDRESS:

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(C) CITY: Englewood
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(E) COUNTRY: USA
(F) ZIP: 80111

(v) COMPUTER READABLE FORM:

- (A) MEDIUM TYPE: Diskette, 3.5 inch, 1.44 Mb storage
(B) COMPUTER: IBM compatible
(C) OPERATING SYSTEM: MS-DOS
(D) SOFTWARE: WordPerfect 6.1

(vi) CURRENT APPLICATION DATA:

- (A) APPLICATION NUMBER: 08/_____
(B) FILING DATE:
(C) CLASSIFICATION:

(vii) PRIOR APPLICATION DATA:

- (A) APPLICATION NUMBER: PCT/US96/08014
(B) FILING DATE: 30-MAY-1996

(vii) PRIOR APPLICATION DATA:

- (A) APPLICATION NUMBER: 08/458,423
(B) FILING DATE: 02-JUNE-1995

(vii) PRIOR APPLICATION DATA:

- (A) APPLICATION NUMBER: 08/458,424
(B) FILING DATE: 02-JUNE-1995

(vii) PRIOR APPLICATION DATA:

- (A) APPLICATION NUMBER: 08/465,594
(B) FILING DATE: 05-JUNE-1995

(vii) PRIOR APPLICATION DATA:

- (A) APPLICATION NUMBER: 08/465,591
(B) FILING DATE: 05-JUNE-1995

(vii) PRIOR APPLICATION DATA:

- (A) APPLICATION NUMBER: 08/479,725
(B) FILING DATE: 07-JUNE-1995

(vii) PRIOR APPLICATION DATA:

- (A) APPLICATION NUMBER: 08/479,783
(B) FILING DATE: 07-JUNE-1995

(vii) PRIOR APPLICATION DATA:

- (A) APPLICATION NUMBER: 08/618,693
(B) FILING DATE: 20-MARCH-1996

(viii) ATTORNEY/AGENT INFORMATION:

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(2) INFORMATION FOR SEQUENCE ID NO: 1:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 117 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
 GGGGGAGAAC GCGGAUCCNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN 50
 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNAAGCUUCG CUCUAGAUCU 100
 CCCUUUAGUG AGGGUUA 117

(2) INFORMATION FOR SEQUENCE ID NO: 2:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 93 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
 GGGGGAGAAC GCGGAUCCNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN 50
 NNNNNNNNAA GCUUCGCUCU AGAUCUCCCU UUAGUGAGGG UUA 93

(2) INFORMATION FOR SEQUENCE ID NO: 3:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 123 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
 GGGGGAGAAC GCGGAUCCUG UCUCACCCGC CGAUACUGGG GUUCCUGGGG 50
 CCCCUCCAUG GAGGAGGGGG GAGGGGGUGG UUCGAGAGAA GCUUCGCUCU 100
 GAAUCUCCCU UUAGUGAGGG UUA 123

(2) INFORMATION FOR SEQUENCE ID NO: 4:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 95 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: DNA
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
 GGGAGAACGC GGATCCNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN 50
 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN AAGCTTCGCT CTAGA 95

(2) INFORMATION FOR SEQUENCE ID NO: 5:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 71 base pairs

(B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
 GGGAGAACGC GGATCCNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN 50
 NNNNNNAAGC TTCGCTCTAG A 71

(2) INFORMATION FOR SEQUENCE ID NO: 6:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 95 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: DNA
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
 GGGGGAGAAC GCGGATCCTG TCTCCACCGC CGATACTGGG GTTCCTGGGG 50
 CCCCTCCATG GAGGAGGGGG TGGTTCGAG AAAGCTTCGC TCTAG 95

(2) INFORMATION FOR SEQUENCE ID NO: 7:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 35 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: DNA
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
 TAATACGACT CACTATAGGG GGAGTCTGCG GATCC 35

(2) INFORMATION FOR SEQUENCE ID NO: 8:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 35 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: DNA
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
 TAATACGACT CACTATAGGG GGAGAACGCG GATCC 35

(2) INFORMATION FOR SEQUENCE ID NO: 9:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 35 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: DNA
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
 TAACCTCAC TAAAGGGAGA TCTAGAGCGA AGCTT 35

(2) INFORMATION FOR SEQUENCE ID NO: 10:
 (i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 50 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: DNA
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
 GATTTAGGTG ACACTATAGA ATATGCATCA CTAGTAAGCT TTGCTCTAGA 50

(2) INFORMATION FOR SEQUENCE ID NO: 11:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 33 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: DNA
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
 GGATCCCGGA GCTCCCTATA GTGAGTCGTA TTA 33

(2) INFORMATION FOR SEQUENCE ID NO: 12:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 125 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'Fluoro (2'-F) modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:
 GGGGGAGAAC GCGGAUCCGA GCAAUCCAG GCGCAUAGCU UCCGAGUAGA 50
 CAGGAGGGAG GGGUGGAUGU GGCGUCUACU CGGUGUCGUG AAGCUUCGCU 100
 CUAGAUCUCC CUUAGUGAG GGUUA 125

(2) INFORMATION FOR SEQUENCE ID NO: 13:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 125 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'Fluoro (2'-F) modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:
 GGGGGAGAAC GCGGAUCCGA GCAACCCAG GCGCAUAGCU UCCGAGUAGA 50
 CAGGAGGGAG GGGUGGAUGU GGCGUCUACU CGGUGUCGUG AAGCUUCGCU 100
 CUAGAUCUCC CUUAGUGAG GGUUA 125

(2) INFORMATION FOR SEQUENCE ID NO: 14:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 125 base pairs
 (B) TYPE: nucleic acid

- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA
- (ix) FEATURE:
 - (D) OTHER INFORMATION: All pyrimidines are 2'Fluoro (2'-F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:

GGGGGAGAAC GCGGAUCCGA GCAACCCAG GCGCAUAGCU UCCGAGUAGA	50
CAGGCGGGAG GGGUGGAUGU GGCGUCUACU CGGAGUCGUG AAGCUUCGCU	100
CUAGAUCUCC CUUUAGUGAG GGUUA	125

(2) INFORMATION FOR SEQUENCE ID NO: 15:

- (i) SEQUENCE CHARACTERIZATION:
 - (A) LENGTH: 116 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA
- (ix) FEATURE:
 - (D) OTHER INFORMATION: All pyrimidines are 2'-amino (2'NH₂) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:

GGGGGAGAAC GCGGAUCCGG CAACCCAGG CGCAUAGCUU CCGAGUAGAC	50
AGGCGGGAGG GGUGGAUGUG GCGUCACGAG GAAGCUUCGC UCUAGAUCUC	100
CCUUUAGUGA GGGUUA	116

(2) INFORMATION FOR SEQUENCE ID NO: 16:

- (i) SEQUENCE CHARACTERIZATION:
 - (A) LENGTH: 123 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:

GGGGGAGAAC GCGGATCCGC AAUCCAGGC GCAUAGCUUC CGAGUAGACA	50
GGAGGGAGGG GUGGAUGUGG CGUCUACUCG GCGUCGUGAA GCJUCGCUCU	100
AGAUCUCCCU UUAGUGAGGG UUA	123

(2) INFORMATION FOR SEQUENCE ID NO: 17:

- (i) SEQUENCE CHARACTERIZATION:
 - (A) LENGTH: 117 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA
- (ix) FEATURE:
 - (D) OTHER INFORMATION: All pyrimidines are 2'-amino (2'NH₂) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:

GGGGGAGAAC GCGGAUCCGA GCAAUCCAG GCGCAUAGCU UCCGAGUAGA	50
CAGGAGGGAG GGGUGGAUGU GGCGUCUCGA GGAAGCUUCG CUCUAGAUCU	100
CCCUUUAGUG AGGGUUA	117

(2) INFORMATION FOR SEQUENCE ID NO: 18:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 123 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-amino (2'NH₂) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 18:

GGGGGAGAAC GCGGAUCCGA GCAAGCCCUG GCAUAGCUUC CGAGUAGACA	50
GGAGGGAGGG GUGGAUGUGG CGUCUACUCG GUGUCGUGAA GCUUCGCUCU	100
AGAUCUCCCU UUAGUGAGGG UUA	123

(2) INFORMATION FOR SEQUENCE ID NO: 19:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 115 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-amino (2'NH₂) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 19:

GGGGGAGAAC GCGGAUCCGG CAAUCCCAGG CGCAUAGCUU CCGAGUAGAC	50
AGGAGGGAGG GGUGGAUGUG GUGUACGAGG AAGCUUCGCU CUAGAUCUCC	100
CUUUAGUGAG GGUUA	115

(2) INFORMATION FOR SEQUENCE ID NO: 20:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 116 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 20:

GGGGGAGAAC GCGGAUCCGA GCAAUCCCAG GCGCAUAGCU UCCGAGUAGA	50
CAGGAGGGAG GGGUGGAUGU GGUGUCUCGA GAAGCUUCGC UCUAGAUCUC	100
CCUUUAGUGA GGUUA	116

(2) INFORMATION FOR SEQUENCE ID NO: 21:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 98 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-Fluoro (2'-F)

modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 21: 50
GGGGGAGAAC GCGGAUCCAA GCUUCGAGUA GACAGGAGGG AGGGGUGGAU 98
GUGGAGUCUC GAGAAGCUUC GCUCUAGAUC UCCCUUAGU GAGGGUUA

(2) INFORMATION FOR SEQUENCE ID NO: 22:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 113 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'Fluoro (2'-F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 22: 50
GGGGGAGAAC GCGGAUCCGA GCAAUCCUAA GCAUAGCUUC GAGUAGACAG 100
GAGGGAGGGG UGGAUGUGGC GUCUCGAGAA GCUUCGCUCU AGAUCUCCU 113
UUAGUGAGGG UUA

(2) INFORMATION FOR SEQUENCE ID NO: 23:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 116 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All U's are 2'-F uracil

(ix) FEATURE:

(D) OTHER INFORMATION: All C's are 2'NH₂ cytosine

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 23: 50
GGGGGAGAAC GCGGAUCCGA GCAAUCCCGG GCGCAUAGCU UCCGAGGAGA 100
CAGGCGGGAG GGGUGGAUGU GGCGUCUCGA GAAGCUUCGC UCUAGAUCUC 116
CCUUUAGUGA GGGUUA

(2) INFORMATION FOR SEQUENCE ID NO: 24:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 116 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All U's are 2'-F uracil

(ix) FEATURE:

(D) OTHER INFORMATION: All C's are 2'NH₂ cytosine

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 24: 50
GGGGGAGAAC GCGGAUCCGA GCAAUCCCGG GCGCAUAGCU UCCGAGUAGA 100
CAGGCGGGAG GGGUGGAUGU GGCGUCUCGA GAAGCUUCGC UCUAGAUCUC 116
CCUUUAGUGA GGGUUA

(2) INFORMATION FOR SEQUENCE ID NO: 25:

- (i) SEQUENCE CHARACTERIZATION:
 - (A) LENGTH: 42 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA
- (ix) FEATURE:
 - (D) OTHER INFORMATION: All pyrimidines are 2'Fluoro (2'-F) modified
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 25:
 GCUUCCGAGU AGACAGGAGG GAGGGGUGGA UGUGGCGUCU AC 42

(2) INFORMATION FOR SEQUENCE ID NO: 26:

- (i) SEQUENCE CHARACTERIZATION:
 - (A) LENGTH: 43 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 26:
 CUUCCGAGUA GACAGGAGGG AGGGGUGGAU GUGGCGUCUA CUC 43

(2) INFORMATION FOR SEQUENCE ID NO: 27:

- (i) SEQUENCE CHARACTERIZATION:
 - (A) LENGTH: 78 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA
- (ix) FEATURE:
 - (D) OTHER INFORMATION: All pyrimidines are 2'-amino (2'NH₂) modified
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 27:
 GGGGGAGAAC GCGGAUCCGG CAACCCCAGG CGCAUAGCUU CCGAGUAGAC 50
 AGGCGGGAGG GGUGGAUGUG GCGUCACG 78

(2) INFORMATION FOR SEQUENCE ID NO: 28:

- (i) SEQUENCE CHARACTERIZATION:
 - (A) LENGTH: 117 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA
- (ix) FEATURE:
 - (D) OTHER INFORMATION: All pyrimidines are 2'-amino (2'NH₂) modified
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 28:
 GGGGGAGAAC GCGGAUCCUG AGAAGGACGU CGGGGUCAAC GGGGUGAGGU 50
 GCAGCAGAAA GGGCCGGCAC CACAUGACGU AAAAGCUUCG CUCUAGAUCU 100
 CCCUUUAGUG AGGGUUA 117

(2) INFORMATION FOR SEQUENCE ID NO: 29:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 108 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'Fluoro (2'-F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 29:

GGGGGAGAAC GCGGAUCCUG AGAAGGACGU CGGGGUGAGG UGCAGCAGAA	50
AGGGCCGGCA CCACAUGACG UAAAAGCUUC GCUCUAGAUC UCCCUUUAGU	100
GAGGGUUA	108

(2) INFORMATION FOR SEQUENCE ID NO: 30:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 92 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'Fluoro (2'-F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 30:

GGGGGAGAAC GCGGAUCCGG UGGGAAAGUC GGAUUUAUGUG UGUAGAUUUG	50
UGUGCGAAAG CUUCGCUCUA GAUCUCCCUU UAGUGAGGGU UA	92

(2) INFORMATION FOR SEQUENCE ID NO: 31:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 69 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-amino (2'NH₂) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 31:

GGAGAACGCG GAUCCUGAGA AGGACGUCGG GGUCAACGGG GUGAGGUGCA	50
GCAGAAAGGG CCGGCACCA	69

(2) INFORMATION FOR SEQUENCE ID NO: 32:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 117 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'Fluoro (2'-F)

modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 32:

GGGGGAGAAC GCGGAUCCUG CUAGACCGAG GAUGCAAAGG GACAUGCAUU	50
AGGGAAACCU AUGUAUAAGA ACGCGGUCGC AGAAGCUUCG CUCUAGAUCU	100
CCCUUUAGUG AGGGUUA	117

(2) INFORMATION FOR SEQUENCE ID NO: 33:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 83 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'Fluoro (2'-F)

modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 33:

GGGGGAGAAC GCGGAUCCUG CUAGACCGAG GAUGCAAAGG GACAUGCAUU	50
AGGGAAACCU AUGUAUAAGA ACGCGGUCGC AGA	83

(2) INFORMATION FOR SEQUENCE ID NO: 34:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 116 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'Fluoro (2'-F)

modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 34:

GGGGGAGAAC GCGGAUCCUG CUAGACCGAG GAUGCAAAGG GACAUGCAUU	50
AGGGAAACCU AUUAUAAGAA CGCGGUCGCA GAAGCUUCGC UCUAGAUCUC	100
CCUUUAGUGA GGGUUA	116

(2) INFORMATION FOR SEQUENCE ID NO: 35:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 117 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All C's are 2'-F uracil

(ix) FEATURE:

(D) OTHER INFORMATION: All U's are 2'NH₂ cytosine

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 35:

GGGGGAGAAC GCGGAUCCUG UCUCACCGC CGAUACUGGG GUUCCUGGGG	50
CCCCUCCAUG CAGGAGGGGG GUGGUUCGGA GAAAGCUUCG CUCUAGAUCU	100
CCCUUUAGUG AGGGUUA	117

(2) INFORMATION FOR SEQUENCE ID NO: 36:

(i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 81 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All C's are 2'-F uracil
 (ix) FEATURE:
 (D) OTHER INFORMATION: All U's are 2'NH₂ cytosine
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 36:

GGGGGAGAAC GCGGAUCCUG UCUCACCGC CGAUACUGGG GUUCCUGGGG	50
CCCCUCCAUG CAGGAGGGGG GUGGUUCGGA G	81

(2) INFORMATION FOR SEQUENCE ID NO: 37:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 117 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All C's are 2'-F uracil
 (ix) FEATURE:
 (D) OTHER INFORMATION: All U's are 2'NH₂ cytosine
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 37:

GGGGGAGAAC GCGGAUCCUG UCUCACCGC CGAUACUGGG GUUCCUGGGG	50
CCGCUCCAUG CAGGAGGGGG GUGGUUCGGA GAAAGCUUCG CUCUAGAUCU	100
CCCUUUGAG AGGGUUA	117

(2) INFORMATION FOR SEQUENCE ID NO: 38:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 115 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All C's are 2'-F uracil
 (ix) FEATURE:
 (D) OTHER INFORMATION: All U's are 2'NH₂ cytosine
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 38:

GGGGGAGAAC GCGGAUCCUG UCUCACCGC CGAUACUGGG GUUCCUGGGG	50
CCCCUCCAUG CAGGAGGGGU GGUUCGGAGA AAGCUUCGCU CUAGAUCUCC	100
CUUUGAGAG GGUUA	115

(2) INFORMATION FOR SEQUENCE ID NO: 39:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 92 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'Fluoro (2'-F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 39:

GGGGGAGAAC GCGGAUCCGG AAGUCUGGUC UUUGGGGAGU CCGCAUGGCC	50
CUGGCGAAAG CUUCGCUCUA GAUCUCCCUU UAGUGAGGGU UA	92

(2) INFORMATION FOR SEQUENCE ID NO: 40:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 111 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'Fluoro (2'-F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 40:

GGGGGAGAAC GCGGAUCCAA GAAUGUUCGG CCGCACGAGG UGACAGUGGU	50
GCGGAUACGG ACCGAUUGGG UUUGCCAAGC UUCGCUCUAG AUCUCCCUU	100
AGUGAGGGUU A	111

(2) INFORMATION FOR SEQUENCE ID NO: 41:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 117 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 41:

GGGGGAGAAC GCGGAUCCGG UCACCCGGGC AUAUAACAAU GCCGACACUG	50
GGGUACCUGG GACGGGUGGG ACUGGACGGA AGAAGCUUCG CUCUAGAUCU	100
CCCUUAGUG AGGGUUA	117

(2) INFORMATION FOR SEQUENCE ID NO: 42:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 119 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 42:

GGGGGAGAAC GCGGAUCCAU AACCGGCUGC AUGGGAGGGA CAUCCUGGGA	50
AAGGACGGGU CGAGAUGACC UGAGCAGUUC CGGCAAGCUU CGCUCUAGAU	100
CUCCCUUAG UGAGGGUUA	119

(2) INFORMATION FOR SEQUENCE ID NO: 43:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 71 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: DNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 43:
TCGGGCGAGT CGTCTGNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN 50
NNNNNNCCGC ATCGTCCTCC C 71

(2) INFORMATION FOR SEQUENCE ID NO: 44:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 32 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: DNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 44:
TAATACGACT CACTATAGGG AGGACGATGC GG 32

(2) INFORMATION FOR SEQUENCE ID NO: 45:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 16 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: DNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 45:
TCGGGCGAGT CGTCTG 16

(2) INFORMATION FOR SEQUENCE ID NO: 46:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 71 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: DNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 46:
GGCAGGACGA TGCGGNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN 50
NNNNNCAGAC GACTCGCCCG A 71

(2) INFORMATION FOR SEQUENCE ID NO: 47:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 15 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: DNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 47:
GGGAGGACGA TGCGG 15

(2) INFORMATION FOR SEQUENCE ID NO: 48:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 19 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single

(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: DNA
(ix) FEATURE:
(D) OTHER INFORMATION: N at positions 1-3 is biotin
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 48:
NNNTCGGGCG AGTCGTCTG 19

(2) INFORMATION FOR SEQUENCE ID NO: 49:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 87 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: DNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 49:
GCCTGTTGTG AGCCTCCTGT CGAANNNNNNN NNNNNNNNNN NNNNNNNNNN 50
NNNNNNNNNN NNNNTTGAGC GTTTATTCTT GTCTCCC 87

(2) INFORMATION FOR SEQUENCE ID NO: 50:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 40 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: DNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 50:
TAATACGACT CACTATAGGG AGACAAGAAT AAACGCTCAA 40

(2) INFORMATION FOR SEQUENCE ID NO: 51:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 24 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: DNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 51:
GCCTGTTGTG AGCCTCCTGT CGAA 24

(2) INFORMATION FOR SEQUENCE ID NO: 52:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 87 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: DNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 52:
GGGAGACAAG AATAACGCT CAANNNNNNN NNNNNNNNNN NNNNNNNNNN 50
NNNNNNNNNN NNNTTCGACA GGAGGCTCAC AACAGGC 87

(2) INFORMATION FOR SEQUENCE ID NO: 53:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 23 base pairs

(B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: DNA
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 53:
 GGGAGACAAG AATAACGCT CAA 23

(2) INFORMATION FOR SEQUENCE ID NO: 54:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 27 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: DNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: N at positions 1-3 is biotin
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 54:
 NNNGCCTGTT GTGAGCCTCC TGTCGAA 27

(2) INFORMATION FOR SEQUENCE ID NO: 55:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 71 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: DNA
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 55:
 GGGAGGACGA TGCGGCCAGG GGGGGTATGG GGGTGGTGCT ACTTACTTGC 50
 GTCTTCAGAC GACTCGCCCG A 71

(2) INFORMATION FOR SEQUENCE ID NO: 56:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 71 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: DNA
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 56:
 GGGAGGACGA TGCGGCCAGG GGGGGTATGG GGGTAGTGCT ACTTACTTGC 50
 GTCTTCAGAC GACTCGCCCG A 71

(2) INFORMATION FOR SEQUENCE ID NO: 57:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 71 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: DNA
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 57:
 GGGAGGACGA TGCGGCCAGG GGGGGTATGG GGGTAGTACT ACTTACTTAC 50
 GTCTTCAGAC GACTCGCCCG A 71

(2) INFORMATION FOR SEQUENCE ID NO: 58:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 70 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 58:

GGGAGGACGA TGCGGCCAGG GGGGGTATGG GGGTATACTA CTTACTTACG
TCTTCAGACG ACTCGCCCCG A

50
70

(2) INFORMATION FOR SEQUENCE ID NO: 59:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 71 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 59:

GGGAGGACGA TGCGGCCAGG GGGGGTATGG GGGTAATACT ACTTACTTAC
ATCTTCAGAC GACTCGCCCCG A

50
71

(2) INFORMATION FOR SEQUENCE ID NO: 60:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 71 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 60:

GGGAGGACGA TGCGGCCAGG GGGGGTATGG GGGTAATACT ACTTACTTAC
GTCTTCAGAC GACTCGCCCCG A

50
71

(2) INFORMATION FOR SEQUENCE ID NO: 61:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 71 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 61:

GGGAGGACGA TGCGGCCAGG GGGGGTATGG GGGTGGTGTT ACTTACTTGC
GTCTTCAGAC GACTCGCCCCG A

50
71

(2) INFORMATION FOR SEQUENCE ID NO: 62:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 71 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 62:

GGGAGGACGA TGCGGCCAGG GGGGGTATGG GGGTGGTGCT TCTTACTTGC
GTCTTCAGAC GACTCGCCCCG A

50
71

(2) INFORMATION FOR SEQUENCE ID NO: 63:

- (i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 73 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 63:

GGGAGGACGA TGCGGCCAGG GGGGGTATGG GGGTGGTGTA CTTTTTCCTG
CGTCTTCCAG ACGACTCGCC CGA

50
73

(2) INFORMATION FOR SEQUENCE ID NO: 64:

- (i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 72 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 64:

GGGAGGACGA TGCGGCCAGG GGGGGTATGG GGGTGGTTCG TTTTTCTTTG
CGGCTTCAGA CGACTCGCCC GA

50
72

(2) INFORMATION FOR SEQUENCE ID NO: 65:

- (i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 71 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 65:

GGGAGGACGA TGCGGCCAGG GGGGGTGTGG GGGTGGTGTA CTTTTTCTTG
TCTTCCAGAC GACTCGCCCCG A

50
71

(2) INFORMATION FOR SEQUENCE ID NO: 66:

- (i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 71 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 66:

GGGAGGACGA TGCGGCCAGG GGGGGTATGG GGGTGGTTTG GTATGTTGCG
TCCGTCAGAC GACTCGCCCCG A

50
71

(2) INFORMATION FOR SEQUENCE ID NO: 67:

- (i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 71 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single

(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: DNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 67:
GGGAGGACGA TCGGCCCGG GTGGGTATGG GGGTAATACT ACTTACTTAC 50
GTCTTCAGAC GACTCGCCCG A 71

(2) INFORMATION FOR SEQUENCE ID NO: 68 :
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 72 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: DNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 68:
GGGAGGACGA TCGGCCCGG GGTGGGTAGG GGGGTAGTGC TACTACTTA 50
CGTCTTCAGAC GACTCGCCCG GA 72

(2) INFORMATION FOR SEQUENCE ID NO: 69:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 71 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: DNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 69:
GGGAGGACGA TCGGCCCAGG GTCGGTGTGG GGGTAGTACT ACTTACTTGC 50
GTCTTCAGAC GACTCGCCCG A 71

(2) INFORMATION FOR SEQUENCE ID NO: 70:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 71 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: DNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 70:
GGGAGGACGA TCGGCCCAGG GTGGGTATGG GGGTAGTGCT ACTTACTTGC 50
GTCTTCAGAC GACTCGCCCG A 71

(2) INFORMATION FOR SEQUENCE ID NO: 71:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 71 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: DNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 71:
GGGAGGACGA TCGGCCCGG GTGGGTATGG GGGTGGTGCT ACTTACTTGC 50
GTCTTCAGAC GACTCGCCCG A 71

(2) INFORMATION FOR SEQUENCE ID NO: 72:
(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 71 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: DNA
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 72:
 GGGAGGACGA TCGGCCTGG GTGGGTATGG GGGTGGTGCT ACTTACTTGC 50
 GTCTTCAGACG ACTCGCCCG A 71

(2) INFORMATION FOR SEQUENCE ID NO: 73:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 72 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: DNA
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 73:
 GGGAGGACGA TCGGCCACG GGTGGGTGTG GGGTAGTGTG TCTCACTTTA 50
 CATCACCAGA CGACTCGCCC GA 72

(2) INFORMATION FOR SEQUENCE ID NO: 74:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 71 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: DNA
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 74:
 GGGAGGACGA TCGGCCCGG GGTGGGTGTG GGGTAGTGTA TTATATTTAC 50
 AGCCTCAGAC GACTCGCCCG A 71

(2) INFORMATION FOR SEQUENCE ID NO: 75:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 71 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: DNA
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 75:
 GGGAGGACGA TCGGCCCAGG GTCGGTGTGG GGTGGTGTAC TTTTTCCTGT 50
 CCTTCCAGAC GACTCGCCCG A 71

(2) INFORMATION FOR SEQUENCE ID NO: 76:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 71 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: DNA
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 76:
 GGGAGGACGA TCGGCCCAGG GTCGGTATGG GGTAGTGTAC TTTTAAATGA 50
 TCTTCCAGAC GACTCGCCCG A 71

(2) INFORMATION FOR SEQUENCE ID NO: 77:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 72 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 77:

GGGAGGACGA TGCGGCCCGG GGGAGAGCGG TGGGTAGTGT TCTATAGTAT 50
TCGTGTCAGA CGACTCGCCC GA 72

(2) INFORMATION FOR SEQUENCE ID NO: 78:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 71 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 78:

GGGAGGACGA TGCGGCCAGG GGGGGTATGT TTTAATACT ACTTACTTAC 50
GTCTTCAGAC GACTCGCCCG A 71

(2) INFORMATION FOR SEQUENCE ID NO: 79:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 72 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 79:

GGGAGGACGA TGCGGCCAGG GAGGGTATGG GGGTGGTGT TCTAGTTTGT 50
CGGCGTCAGA CGACTCGCCC GA 72

(2) INFORMATION FOR SEQUENCE ID NO: 80:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 72 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 80:

GGGAGGACGA TGCGGCCAGG GTGGGCATGG GGGTGGTGTG GATTAATTCT 50
TCGTCCCAGA CGACTCGCCC GA 72

(2) INFORMATION FOR SEQUENCE ID NO: 81:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 71 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 81:
GGGAGGACGA TGCGGCCAGG GTCGGTGTGG GGTGGTGT TTATTTACTC 50
GTCGCCAGAC GACTCGCCCG A 71

(2) INFORMATION FOR SEQUENCE ID NO: 82:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 71 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: DNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 82:
GGGAGGACGA TGCGGGGGGC GGCTTGAAG AGGTTGCCGG TTGGAGTATT 50
CGAGCCAGAC GACTCGCCCG A 71

(2) INFORMATION FOR SEQUENCE ID NO: 83:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 67 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: DNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 83:
GGGAGGACGA TGCGGCCAGG TGTGGGTGG TTTGGGTTTT CTTTCGTCGC 50
CCAGACGACT CGCCCGA 67

(2) INFORMATION FOR SEQUENCE ID NO: 84:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 70 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: DNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 84:
GGGAGGACGA TGCGGCCAGG GTGGGTATGG GGGTTTAATT AATTCTTCGT 50
CCCACAGACG ACTCGCCCGA 70

(2) INFORMATION FOR SEQUENCE ID NO: 85:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 71 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: DNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 85:
GGGAGGACGA TGCGGGGGGC GGCTTGAAG AGGTTGCCGG TTGGAGTATT 50
CGAGCCAGAC GACTCGCCCG A 71

(2) INFORMATION FOR SEQUENCE ID NO: 86:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 72 base pairs
(B) TYPE: nucleic acid

(C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: DNA
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 86:
 GGGAGGACGA TGCGGCCCGG GGTGGGTGTG GGGTGGTGTG AATTAATTCT 50
 TCGTCCCAGA CGACTCGCCC GA 72

(2) INFORMATION FOR SEQUENCE ID NO: 87:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 71 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: DNA
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 87:
 GGGAGGACGA TGCGGCCCGG GGTGGGTGTG GGGTGGTGTG TTATATTTGC 50
 GGCCTCAGAC GACTCGCCCG A 71

(2) INFORMATION FOR SEQUENCE ID NO: 88:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 70 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: DNA
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 88:
 GGGAGGACGA TGCGGCCAGG GTCGGTGTGG GTGGTGTACT TTTTCCTGTC 50
 CTTCCAGACG ACTCGCCCGA 70

(2) INFORMATION FOR SEQUENCE ID NO: 89:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 71 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: DNA
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 89:
 GGGAGGACGA TGCGGGGGGC GGCTTGGAAG AGGTTGCCCG TTGGAGTATT 50
 CGAGCCAGAC GACTCGCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 90:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 86 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: DNA
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 90:
 ATCCGCCTGA TTAGCGATAC TNNNNNNNNN NNNNNNNNNN NNNNNNNNNN 50
 NNNNNNNNNN NACTTGAGCA AAATCACCTG CAGGGG 86

(2) INFORMATION FOR SEQ ID NO: 91:

(i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 28 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: DNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: N at positions 1-3 is biotin
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 91:
 NNNCCCCTGC AGGTGATTTT GCTCAAGT 28

(2) INFORMATION FOR SEQ ID NO: 92:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 49 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: DNA
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 92:
 CCGAAGCTTA ATACGACTCA CTATAGGGAT CCGCCTGATT AGCGATACT 49

(2) INFORMATION FOR SEQ ID NO: 93:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 84 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: DNA
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 93:
 ATCCGCTGA TTAGCGATAC TAGGCTTGAC AAAGGGCACC ATGGCTTAGT 50
 GGTCCCTAGTA CTTGAGCAA AATCACCTGCA GGGG 84

(2) INFORMATION FOR SEQ ID NO: 94:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 85 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: DNA
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 94:
 ATCCGCTGA TTAGCGATAC TCAGGGCACT GCAAGCAATT GTGGTCCCAA 50
 TGGGCTGAGT ACTTGAGCAA AATCACCTGC AGGGG 85

(2) INFORMATION FOR SEQ ID NO: 95:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 86 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: DNA
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 95:
 ATCCGCTGA TTAGCGATAC TCCAGGCAGT CATGGTCATT GTTTACAGTC 50

GTGGAGTAGG TACTTGAGCA AAATCACCTG CAGGGG

86

(2) INFORMATION FOR SEQ ID NO: 96:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 85 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 96:

ATCCGCCTGA TTAGCGATAC TAGGTGATCC CTGCAAAGGC AGGATAACGT 50

CCTGAGCATC ACTTGAGCAA AATCACCTGC AGGGG 85

(2) INFORMATION FOR SEQ ID NO: 97:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 83 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 97:

ATCCGCCTGA TTAGCGATAC TATGTGATCC CTGCAGAGGG AGGANACGTC 50

TGAGCATCAC TTGAGCAAAA TCACCTGCAG GGG 83

(2) INFORMATION FOR SEQ ID NO: 98:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 86 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 98:

ATCCGCCTGA TTAGCGATAC TCACGTGATC CCATAAGGGC TGCGCAAAAT 50

AGCAGAGCAT CACTTGAGCA AAATCACCTG CAGGGG 86

(2) INFORMATION FOR SEQ ID NO: 99:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 86 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 99:

ATCCGCCTGA TTAGCGATAC TGGTGGACTA GAGGGCAGCA AACGATCCTT 50

GGTTAGCGTC CACTTGAGCA AAATCACCTG CAGGGG 86

(2) INFORMATION FOR SEQ ID NO: 100:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 85 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 100:
ATCCGCCTGA TTAGCGATAC TGGTGCACG AGGCTTACAC AAACGTACAC 50
GTTTCCCCGC ACTTGAGCAA AATCACCTGC AGGGG 85

(2) INFORMATION FOR SEQ ID NO: 101:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 86 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: DNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 101:
ATCCGCCTGA TTAGCGATAC TTGTCCGAGC AGGGGCGTAC GAAAACCTTA 50
CAGTTCCCCC GACTTGAGCA AAATCACCTG CAGGGG 86

(2) INFORMATION FOR SEQ ID NO: 102:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 86 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: DNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 102:
ATCCGCCTGA TTAGCGATAC TAGTGGAACA GGGCACGGAG AGTCAAACCTT 50
TGGTTTCCCC CACTTGAGCA AAATCACCTG CAGGGG 86

(2) INFORMATION FOR SEQ ID NO: 103:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 86 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: DNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 103:
ATCCGCCTGA TTAGCGATAC TGTGGGTAGG GATCGGTGGA TGCCTCGTCA 50
CTTCTAGTCC CACTTGAGCA AAATCACCTG CAGGGG 86

(2) INFORMATION FOR SEQ ID NO: 104:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 86 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: DNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 104:
ATCCGCCTGA TTAGCGATAC TGGGCGCCCT AAACAAAGGG TGGTCACTTC 50
TAGTCCCAGG AACTTGAGCA AAATCACCTG CAGGGG 86

(2) INFORMATION FOR SEQ ID NO: 105:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 87 base pairs

(B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: DNA
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 105:
 ATCCGCCTGA TTAGCGATAC TTCCGGGCTC GGGATTCGTG GTCACCTTCA 50
 GTCCCGGATA TAACTTGAGC AAAATCACCT GCAGGGG 87

(2) INFORMATION FOR SEQ ID NO: 106:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 84 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: DNA
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 106:
 ATCCGCCTGA TTAGCGATAC TATGGGAGGG CGCGTTCTTC GTGGTTACTT 50
 TTAGTCCCGA CTTGAGCAAA ATCACCTGCA GGGG 84

(2) INFORMATION FOR SEQ ID NO: 107:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 84 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: DNA
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 107:
 ATCCGCCTGA TTAGCGATAC TACGGGAGGG CACGTTCTTC GTGGTTACTT 50
 TTAGTCCCGA CTTGAGCAAA ATCACCTGCA GGGG 84

(2) INFORMATION FOR SEQ ID NO: 108:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 86 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: DNA
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 108:
 ATCCGCCTGA TTAGCGATAC TGCTCGTAGG GGGCGATTCT TTCGCCGTTA 50
 CTTCCAGTCC TACTTGAGCA AAATCACCTG CAGGGG 86

(2) INFORMATION FOR SEQ ID NO: 109:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 86 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: DNA
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 109:
 ATCCGCCTGA TTAGCGATAC TGAGGCATGT TAACATGAGC ATCGTCTCAC 50
 GATCCTCAGC CACTTGAGCA AAATCACCTG CAGGGG 86

(2) INFORMATION FOR SEQ ID NO: 110:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 86 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: DNA
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 110:
 ATCCGCCTGA TTAGCGATAC TCCACAGGCT ACGGCACGTA GAGCATCACC 50
 ATGATCCTGT GACTTGAGCA AAATCACCTG CAGGGG 86

(2) INFORMATION FOR SEQ ID NO: 111:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 86 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: DNA
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 111:
 ATCCGCCTGA TTAGCGATAC TGCGGGCATG GCACATGAGC ATCTCTGATC 50
 CCGCAATCCT CACTTGAGCA AAATCACCTG CAGGGG 86

(2) INFORMATION FOR SEQ ID NO: 112:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 86 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: DNA
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 112:
 ATCCGCCTGA TTAGCGATAC TACCGGGCTA CTTCTAGAG CATCTCTGAT 50
 CCCGGTGCTC GACTTGAGCA AAATCACCTG CAGGGG 86

(2) INFORMATION FOR SEQ ID NO: 113:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 86 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: DNA
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 113:
 ATCCGCCTGA TTAGCGATAC TAAAGGGCGA ACGTAGGTCG AGGCATCCAT 50
 TGGATCCCTT CACTTGAGCA AAATCACCTG CAGGGG 86

(2) INFORMATION FOR SEQ ID NO: 114:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 86 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: DNA
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 114:

ATCCGCCTGA TTAGCGATAC TACGGGCTCT GTCAGTGTGG CACTAGCAAT 50
AGTCCCGTCG CACTTGAGCA AAATCACCTG CAGGGG 86

(2) INFORMATION FOR SEQ ID NO: 115:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 85 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 115:

ATCCGCCTGA TTAGCGATAC TGGGCAGACC TTCTGGACGA GCATCACCTA 50
TGTGATCCCG ACTTGAGCAA AATCACCTGC AGGGG 85

(2) INFORMATION FOR SEQ ID NO: 116:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 86 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 116:

ATCCGCCTGA TTAGCGATAC TAGAGGGGAA GTAGGCTGCC TGA CTGAGA 50
GAGTCCTCCC GACTTGAGCA AAATCACCTG CAGGGG 86

(2) INFORMATION FOR SEQ ID NO: 117:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 86 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 117:

ATCCGCCTGA TTAGCGATAC TAGGGGTGCG AAACACATAA TCCTCGCGGA 50
TTCCCATCGC TACTTGAGCA AAATCACCTG CAGGGG 85

(2) INFORMATION FOR SEQ ID NO: 118:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 83 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 118:

ATCCGCCTGA TTAGCGATAC TGGGGGGGCA ATGGCGGTAC CTCTGGTCCC 50
CTAAATACAC TTGAGCAAAA TCACCTGCAG GGG 83

(2) INFORMATION FOR SEQ ID NO: 119:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 85 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single

(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: DNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 119:
ATCCGCCTGA TTAGCGATAC TGC GGCTCAA AGTCCTGCTA CCCGCAGCAC 50
ATCTGTGGTC ACTTGAGCAA AATCACCTGC AGGGG 85

(2) INFORMATION FOR SEQ ID NO: 120:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 86 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: DNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 120:
ATCCGCCTGA TTAGCGATAC TTTGGGCGTG AATGTCCACG GGTACCTCCG 50
GTCCCAAAGA GACTTGAGCA AAATCACCTG CAGGGG 86

(2) INFORMATION FOR SEQ ID NO: 121:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 85 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: DNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 121:
ATCCGCCTGA TTAGCGATAC TTCCGCGCAA GTCCCTGGTA AAGGGCAGCC 50
CTAACTGGTC ACTTGAGCAA AATCACCTGC AGGGG 85

(2) INFORMATION FOR SEQ ID NO: 122:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 86 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: DNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 122:
ATCCGCCTGA TTAGCGATAC TCAAGTTCCC CACAAGACTG GGGCTGTTCA 50
AACCCTAGT AACTTGAGCA AAATCACCTG CAGGGG 86

(2) INFORMATION FOR SEQ ID NO: 123:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 86 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: DNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 123:
ATCCGCCTGA TTAGCGATAC TCAAGTAGGG CGCGACACAC GTCCGGGCAC 50
CTAAGGTCCC AACTTGAGCA AAATCACCTG CAGGGG 86

(2) INFORMATION FOR SEQ ID NO: 124:
(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 86 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: DNA
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 124:
 ATCCGCCTGA TTAGCGATAC TAAAGTCGTG CAGGGTCCCC TGGAAGCATC 50
 TCCGATCCCA GACTTGAGCA AAATCACCTG CAGGGG 86

(2) INFORMATION FOR SEQ ID NO: 125:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 96 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 125:
 GGGAGACAAG AAUAACGCUC AANNNNNNNNN NNNNNNNNNN 50
 NNNNNNNNNN NNNNNNNNNN NNUUCGACAG GAGGCUCACA ACAGGC 96

(2) INFORMATION FOR SEQ ID NO: 126:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 39 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 126:
 TAATACGACT CACTATAGGG AGACAAGAAT AACGCTCAA 39

(2) INFORMATION FOR SEQ ID NO: 127:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 24 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 127:
 GCCTGTTGTG AGCCTCCTGT CGAA 24

(2) INFORMATION FOR SEQ ID NO: 128:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 93 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-F modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 128:
 GGGAGACAAG AAUAACGCUC AACGGUGGCA UUUCUUCACU UCCUUCUCGC 50
 UUUCUCGCGU UGGGCNCGAU UCGACAGGAG GCUCACAACA GGC 93

(2) INFORMATION FOR SEQ ID NO: 129:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 91 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-F modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 129:

GGGAGACAAG AAUAACGCUC AACCAACCUU CUGUCGGCGU UGCUUUUUGG	50
ACGGCACUCA GGCUCCAUUC GACAGGAGGC UCACAACAGG C	91

(2) INFORMATION FOR SEQ ID NO:130:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 95 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-F modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:130::

GGGAGACAAG AAUAACGCUC AAUCGAUCGG UUGUGUGCCG GACAGCCUUA	50
ACCAGGGCUG GGACCGAGGC CUUCGACAGG AGGCUCACAA CAGGC	95

(2) INFORMATION FOR SEQ ID NO: 131:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 92 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-F modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 131:

GGGAGACAAG AAUAACGCUC AACUGAGUAG GGGAGGAAGU UGAAUCAGUU	50
GUGGCGCCUC UCAUUCGCUU CGACAGGAGG CUCACAACAG GC	92

(2) INFORMATION FOR SEQ ID NO: 132:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 95 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-F modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 132:

GGGAGACAAG AAUAACGCUC AACAGCACUU UCGCUUUUCA UCAUUUUUUC	50
UUUCCACUGU UGGGCGCGGA AUUCGACAGG AGGCUCACAA CAGGC	95

(2) INFORMATION FOR SEQ ID NO: 133:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 96 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-F modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 133:

GGGAGACAAG AAUAACGCUC AAUCAGUGCU GGCGUCAUGU CUCGAUGGGG	50
AUUUUUCUUC AGCACUUUGC CAUUCGACAG GAGGCUCACA ACAGGC	96

(2) INFORMATION FOR SEQ ID NO: 134:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 96 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-F modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 134:

GGGAGACAAG AAUAACGCUC AAUCUACUUU CCAUUUCUCU UUUCUUCUCA	50
CGAGCGGGJU UCCAGUGAAC CAUUCGACAG GAGGCUCACA ACAGGC	96

(2) INFORMATION FOR SEQ ID NO: 135:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 94 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-F modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 135:

GGGAGACAAG AAUAACGCUC AACGAUAGUG ACUACGAUGA CGAAGGCCGC	50
GGGUUGGAUG CCUGCAUUGA UUCGACAGGA GGCUCACAAC AGGC	94

(2) INFORMATION FOR SEQ ID NO: 136:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 93 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-F modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 136:

GGGAGACAAG AAUAACGCUC AAGUCGAUAC UGGCGACUUG CUCCAUUGGC	50
CGAUUAACGA UUCGGUCAGU UCGACAGGAG GCUCACAACA GGC	93

(2) INFORMATION FOR SEQ ID NO: 137:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 95 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-F modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 137:

GGGAGACAAG AAUAACGCUC AAGUGCAAAC UUAACCCGGG AACCGCGCGU 50
UUCGAUCGAC UUCCUUUCC AUUCGACAGG AGGCUCACAA CAGGC 95

(2) INFORMATION FOR SEQ ID NO: 138:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 96 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-F modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 138:

GGGAGACAAG AAUAACGCUC AAUUCGCG UUCGGAUUA UCCUGUGCUC 50
GGAAUUCGGU AGCCAUGUG CAUUCGACAG GAGGCUCACA ACAGGC 96

(2) INFORMATION FOR SEQ ID NO: 139:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 94 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-F modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 139:

GGGAGACAAG AAUAACGCUC AACGAACGAG GAGGGAGUGG CAAGGGAUGG 50
UUGGAUAGGC UCUACGCUCA UUCGACAGGA GGCUCACAAC AGGC 94

(2) INFORMATION FOR SEQ ID NO: 140:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 94 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-F modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 140:

GGGAGACAAG AAUAACGCUC AAGCGAAACU GGCGACUUGC UCCAUUGGCC 50
GAUAUAACGA UUCGGUUAU UUCGACAGGA GGCUCACAAC AGGC 94

(2) INFORMATION FOR SEQ ID NO: 141:

- (i) SEQUENCE CHARACTERIZATION:
 - (A) LENGTH: 95 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA
- (ix) FEATURE:
 - (D) OTHER INFORMATION: All pyrimidines are 2'-F modified
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 141:

GGGAGACAAG AAUAACGCUC AACGAACGAG GAGGGAGUCG CAAGGGAUGG	50
UUGGAUAGGC UCUACGCUCA AUUCGACAGG AGGCUCACAA CAGGC	95

(2) INFORMATION FOR SEQ ID NO: 142:

- (i) SEQUENCE CHARACTERIZATION:
 - (A) LENGTH: 94 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA
- (ix) FEATURE:
 - (D) OTHER INFORMATION: All pyrimidines are 2'-F modified
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 142:

GGGAGACAAG AAUAACGCUC AACGAGAAGU GACUACGAUG ACGAAGGCCG	50
CGGGUUGAAU CCCUCAUUGA UUCGACAGGA GGCUCACAAC AGGC	94

(2) INFORMATION FOR SEQ ID NO: 143:

- (i) SEQUENCE CHARACTERIZATION:
 - (A) LENGTH: 95 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA
- (ix) FEATURE:
 - (D) OTHER INFORMATION: All pyrimidines are 2'-F modified
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 143:

GGGAGACAAG AAUAACGCUC AAAAGCAACG AGACCUGACG CCUGAUGUGA	50
CUGUGCUUGC ACCCGAUUCU GUUCGACAGG AGGCUCACAA CAGGC	95

(2) INFORMATION FOR SEQ ID NO: 144:

- (i) SEQUENCE CHARACTERIZATION:
 - (A) LENGTH: 96 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA
- (ix) FEATURE:
 - (D) OTHER INFORMATION: All pyrimidines are 2'-F modified
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 144:

GGGAGACAAG AAUAACGCUC AAGUGAUUCU CAUUCUCAAU GCUUUCUCAC	50
AACUUUUUCC ACUUCAGCGU GAUUCGACAG GAGGCUCACA ACAGGC	96

(2) INFORMATION FOR SEQ ID NO: 145:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 94 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-F modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 145:

GGGAGACAAG AAUAACGCUC AAAAGCAACG AGACUCGACG CCUGAUGUGA	50
CUGUGCUUGC ACCCGAUUCU UUCGACAGGA GGCUCACAAC AGGC	94

(2) INFORMATION FOR SEQ ID NO: 146:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 96 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-F modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 146:

GGGAGACAAG AAUAACGCUC AAUCGAUCGG UUGUGUGCCG GACAGCUUUG	50
ACCAUGAGCU GGGACCGAGG CCUUCGACAG GAGGCUCACA ACAGGC	96

(2) INFORMATION FOR SEQ ID NO: 147:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 96 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-F modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 147:

GGGAGACAAG AAUAACGCUC AANGACNGU GGACCUGACU AAUCGACUGA	50
UCAAGAUAUC CGCCAGAUUG GGUUCGACAG GAGGCUCACA ACAGGC	96

(2) INFORMATION FOR SEQ ID NO: 148:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 94 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-F modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 148:

GGGAGACAAG AAUAACGCUC AACACUGCGA CUUGCAGAAG CCUUGUGUGG	50
CGGUACCCCC UUUGGCCUCG UUCGACAGGA GGCUCACAAC AGGC	94

(2) INFORMATION FOR SEQ ID NO: 149:

- (i) SEQUENCE CHARACTERIZATION:
 - (A) LENGTH: 94 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA
- (ix) FEATURE:
 - (D) OTHER INFORMATION: All pyrimidines are 2'-F modified
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 149:

GGGAGACAAG AAUAACGCUC AAGGUGGCAU UUCUUAUUU UCCUUCUCGC	50
UUUCUCCGCC GUUGGGCGCG UUCGACAGGA GGCUCACAAC AGGC	94

(2) INFORMATION FOR SEQ ID NO: 150:

- (i) SEQUENCE CHARACTERIZATION:
 - (A) LENGTH: 96 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA
- (ix) FEATURE:
 - (D) OTHER INFORMATION: All pyrimidines are 2'-F modified
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 150:

GGGAGACAAG AAUAACGCUC AACCUGAGUA GGGGGGAAAG UUGAAUCAGU	50
UGUGGC3CUC UACUCAUUCG CCUUCGACAG GAGGCUCACA ACAGGC	96

(2) INFORMATION FOR SEQ ID NO: 151:

- (i) SEQUENCE CHARACTERIZATION:
 - (A) LENGTH: 94 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA
- (ix) FEATURE:
 - (D) OTHER INFORMATION: All pyrimidines are 2'-F modified
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 151:

GGGAGACAAG AAUAACGCUC AAGUCGAAAC UGGCGACUUG CUCCAUUGGC	50
CGAUUAUACG AUUCGGUUA UUCGACAGGA GGCUCACAAC AGGC	94

(2) INFORMATION FOR SEQ ID NO: 152:

- (i) SEQUENCE CHARACTERIZATION:
 - (A) LENGTH: 94 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA
- (ix) FEATURE:
 - (D) OTHER INFORMATION: All pyrimidines are 2'-F modified
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 152:

GGGAGACAAG AAUAACGCUC AAGCGAUACU GGCGACUUGC UCCAUUGGCC	50
GAUAUAACGA UUCGGCUCAG UUCGACAGGA GGCUCACAAC AGGC	94

(2) INFORMATION FOR SEQ ID NO: 153:

- (i) SEQUENCE CHARACTERIZATION:
 - (A) LENGTH: 96 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA
- (ix) FEATURE:
 - (D) OTHER INFORMATION: All pyrimidines are 2'-F modified
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 153:

GGGAGACAAG AAUAACGCUC AAACGUGGGG CACAGGACCG AGAGUCCUC	50
CGGCAAUAGC CGCUACCCCA CCUUCGACAG GAGGCUCACA ACAGGC	96

(2) INFORMATION FOR SEQ ID NO: 154:

- (i) SEQUENCE CHARACTERIZATION:
 - (A) LENGTH: 98 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA
- (ix) FEATURE:
 - (D) OTHER INFORMATION: All pyrimidines are 2'-F modified
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 154:

GGGAGACAAG AAUAACGCUC AACACAGCCU NANAGGGGGG AAGUUGAAUC	50
AGUUGUGGCG CUCUACUCAU UCGCUUCGAC AGGAGGCUCA CAACAGGC	98

(2) INFORMATION FOR SEQ ID NO: 155:

- (i) SEQUENCE CHARACTERIZATION:
 - (A) LENGTH: 94 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA
- (ix) FEATURE:
 - (D) OTHER INFORMATION: All pyrimidines are 2'-F modified
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 155:

GGGAGACAAG AAUAACGCUC AAANGGGNUA UGGUGACUUG CUCCAUUGGC	50
CGAUUAACG AUUCGGUCAG UUCGACAGGA GGCUCACAAC AGGC	94

(2) INFORMATION FOR SEQ ID NO: 156:

- (i) SEQUENCE CHARACTERIZATION:
 - (A) LENGTH: 96 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA
- (ix) FEATURE:
 - (D) OTHER INFORMATION: All pyrimidines are 2'-F modified
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 156:

GGGAGACAAG AAUAACGCUC AACCUGCGUA GGGNGGGAAG UUGAAUCAGU	50
UGUGGCGCUC UACUCAUUCG CCUUCGACAG GAGGCUCACA ACAGGC	96

(2) INFORMATION FOR SEQ ID NO: 157:

- (i) SEQUENCE CHARACTERIZATION:
 - (A) LENGTH: 94 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA
- (ix) FEATURE:
 - (D) OTHER INFORMATION: All pyrimidines are 2'-F modified
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 157:

GGGAGACAAG AAUAACGCUC AACGAACGAG GAGGGAGUGG CAAGGGAUGG	50
UUGGAUAGGC UCUACGCUCA UUCGACAGGA GGCUCACAAC AGGC	94

(2) INFORMATION FOR SEQ ID NO: 158:

- (i) SEQUENCE CHARACTERIZATION:
 - (A) LENGTH: 97 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA
- (ix) FEATURE:
 - (D) OTHER INFORMATION: All pyrimidines are 2'-F modified
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 158:

GGGAGACAAG AAUAACGCUC AAGUGCAAAC UUAACCCGGG AACCGCGCGU	50
UUCGAUUCGC UUCCNUAUU CCAUUCGACA GGAGGCUCAC AACAGGC	97

(2) INFORMATION FOR SEQ ID NO: 159:

- (i) SEQUENCE CHARACTERIZATION:
 - (A) LENGTH: 93 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA
- (ix) FEATURE:
 - (D) OTHER INFORMATION: All pyrimidines are 2'-F modified
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 159:

GGGAGACAAG AAUAACGCUC AACGAACGAG GAGGGAGUGG CAAGGGACGG	50
UNNAUAGGCU CUACGCUCAU UCGACAGGAG GCUCACAACA GGC	93

(2) INFORMATION FOR SEQ ID NO: 160:

- (i) SEQUENCE CHARACTERIZATION:
 - (A) LENGTH: 93 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA
- (ix) FEATURE:
 - (D) OTHER INFORMATION: All pyrimidines are 2'-F modified
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 160:

GGGAGACAAG AAUAACGCUC AAUCGGUGUG GCUCAGAAAC UGACACGCGU	50
GAGCUUCGCA CACAUCUGCU UCGACAGGAG GCUCACAACA GGC	93

(2) INFORMATION FOR SEQ ID NO: 161:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 95 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-F modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 161:

GGGAGACAAG AAUAACGCUC AAUAUCGCUU UUCAUCAAUU CCACUUUUUC 50
ACUCUNUAAC UUGGGCGUGC AUUCGACAGG AGGCUCACAA CAGGC 95

(2) INFORMATION FOR SEQ ID NO: 162:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 96 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-F modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 162:

GGGAGACAAG AAUAACGCUC AAGUGCAAAC UUAACCCGGG AACCGCGCGU 50
UUCGAUCCUG CAUCCUUUUU CCUUCGACAG GAGGCUCACA ACAGGC 96

(2) INFORMATION FOR SEQ ID NO: 163:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 93 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-F modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 163:

GGGAGACAAG AAUAACGCUC AAUCGUCGG UUGUGUGCCG GCAGCUUUGU 50
CCAGCGUUGG GCCGAGGCCU UCGACAGGAG GCUCACAACA GGC 93

(2) INFORMATION FOR SEQ ID NO: 164:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 95 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-F modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 164:

GGGAGACAAG AAUAACGCUC AAAGUACCCA UCUCAUUUU UCCUUUCCUU 50
UCUUAAGGC ACAUUGAGGG UUUCGACAGG AGGCUCACAA CAGGC 95

(2) INFORMATION FOR SEQ ID NO: 165:

- (i) SEQUENCE CHARACTERIZATION:
 - (A) LENGTH: 97 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA
- (ix) FEATURE:
 - (D) OTHER INFORMATION: All pyrimidines are 2'-F modified
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 165:

GGGAGACAAG AAUAACGCUC AACCUGAGUA GGGGGGGAAG UGAACCAGU	50
UGUGGCNGCC UACUCAUCN CCAUUCGACA GGAGGCUCAC AACAGGC	97

(2) INFORMATION FOR SEQ ID NO: 166:

- (i) SEQUENCE CHARACTERIZATION:
 - (A) LENGTH: 94 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA
- (ix) FEATURE:
 - (D) OTHER INFORMATION: All pyrimidines are 2'-F modified
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 166:

GGGAGACAAG AAUAACGCUC AACCNCCUN CUGUCGGCGC UUGUCUUUUU	50
GGACGGGCAA CCCAGGGCUC UUCGACAGGA GGCUCACAAC AGGC	94

(2) INFORMATION FOR SEQ ID NO: 167:

- (i) SEQUENCE CHARACTERIZATION:
 - (A) LENGTH: 96 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA
- (ix) FEATURE:
 - (D) OTHER INFORMATION: All pyrimidines are 2'-F modified
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 167:

GGGAGACAAG AAUAACGCUC AACCAACUN CUGUCGGCGC UUGUCUUUUU	50
GGACGAGCAA CUCAAGGCUC GUUUCGACAG GAGGCUCACA ACAGGC	96

(2) INFORMATION FOR SEQ ID NO: 168:

- (i) SEQUENCE CHARACTERIZATION:
 - (A) LENGTH: 93 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA
- (ix) FEATURE:
 - (D) OTHER INFORMATION: All pyrimidines are 2'-F modified
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 168:

GGGAGACAAG AAUAACGCUC AACCAGCGCA GAUCCCGGGC UGAAGUGACU	50
GCCGGCAACG GCCGCUCCAU UCGACAGGAG GCUCACAACA GGC	93

(2) INFORMATION FOR SEQ ID NO: 169:

- (i) SEQUENCE CHARACTERIZATION:
 - (A) LENGTH: 96 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA
- (ix) FEATURE:
 - (D) OTHER INFORMATION: All pyrimidines are 2'-F modified
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 169:

GGGAGACAAG AAUAACGCUC AAUCCCCGUA ACAACUUUUC AUUUUCACUU	50
UUCAUCCAAC CAGUGAGCAG CAUUCGACAG GAGGCUCACA ACAGGC	96

(2) INFORMATION FOR SEQ ID NO: 170:

- (i) SEQUENCE CHARACTERIZATION:
 - (A) LENGTH: 96 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA
- (ix) FEATURE:
 - (D) OTHER INFORMATION: All pyrimidines are 2'-F modified
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 170:

GGGAGACAAG AAUAACGCUC AAUAUCGCUU UCAUCAAAUU CCACUCCUUC	50
ACUUCUUUAA CUUGGGCGUG CAUUCGACAG GAGGCUCACA ACAGGC	96

(2) INFORMATION FOR SEQ ID NO: 171:

- (i) SEQUENCE CHARACTERIZATION:
 - (A) LENGTH: 23 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: DNA
- (ix) FEATURE:
 - (D) OTHER INFORMATION: N at positions 1 and 23
base pair to each other and can be 1-4
base pairs long.
- (ix) FEATURE:
 - (D) OTHER INFORMATION: N at positions 5 and 10
is any base pair.
- (ix) FEATURE:
 - (D) OTHER INFORMATION: N at positions 6 and 9
is any base pair.
- (ix) FEATURE:
 - (D) OTHER INFORMATION: N at positions 7 and 8 is
any base pair.
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 171:

NGGCNNNNNN GRKYAYRRT CCN	23
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(2) INFORMATION FOR SEQ ID NO: 172:

- (i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 38 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: DNA
- (ix) FEATURE:
 - (D) OTHER INFORMATION: Nucleotide 38 is an inverted orientation T (3'-3' linked)
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 172:
TGGGAGGGCG CGTTCTTCGT GGTTACTTTT AGTCCCGT

38

- (2) INFORMATION FOR SEQ ID NO: 173:
 - (i) SEQUENCE CHARACTERIZATION:
 - (A) LENGTH: 40 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULAR TYPE: DNA
 - (ix) FEATURE:
 - (D) OTHER INFORMATION: Nucleotide 40 is an inverted orientation T (3'-3' linked)
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 173:
CACAGGCTAC GGCACGTAGA GCATCACCAT GATCCTGTGT

40

- (2) INFORMATION FOR SEQ ID NO: 174:
 - (i) SEQUENCE CHARACTERIZATION:
 - (A) LENGTH: 45 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULAR TYPE: DNA
 - (ix) FEATURE:
 - (D) OTHER INFORMATION: Nucleotide 45 is an inverted orientation T (3'-3' linked)
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 174:
TACTCAGGGC ACTGCAAGCA ATTGTGGTCC CAATGGGCTG AGTAT

45

- (2) INFORMATION FOR SEQ ID NO: 175:
 - (i) SEQUENCE CHARACTERIZATION:
 - (A) LENGTH: 36 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULAR TYPE: DNA
 - (ix) FEATURE:
 - (D) OTHER INFORMATION: C at positions 8, 11, 25 and 26 is 2'-O-methyl-2'-deoxycytidine.
 - (ix) FEATURE:
 - (D) OTHER INFORMATION: G at positions 9, 10, 17, 19 and 35 is 2'-O-methyl-2'-deoxyguanosine.
 - (ix) FEATURE:
 - (D) OTHER INFORMATION: A at positions 12, 24

and 27 is 2'-O-methyl-2'-deoxyadenosine.

(ix) FEATURE:
 (D) OTHER INFORMATION: U at position 34 is 2'-O-methyl-2'-deoxyuridine.

(ix) FEATURE:
 (D) OTHER INFORMATION: U at positions 6 and 22 is 2'-fluoro-2'-deoxyuridine.

(ix) FEATURE:
 (D) OTHER INFORMATION: C at positions 23, 32 and 33 is 2'-fluoro-2'-deoxycytidine.

(ix) FEATURE:
 (D) OTHER INFORMATION: Nucleotide 36 is an inverted orientation T (3'-3' linked).

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 175:
 CAGGCUACGG CACGTAGAGC AUCACCATGA TCCUGT

36

(2) INFORMATION FOR SEQ ID NO: 176:

(i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 32 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(ix) FEATURE:
 (D) OTHER INFORMATION: C at position 8 is 2'-O-methyl-2'-deoxycytidine.

(ix) FEATURE:
 (D) OTHER INFORMATION: G at positions 9, 17 and 31 is 2'-O-methyl-2'-deoxyguanosine.

(ix) FEATURE:
 (D) OTHER INFORMATION: A at position 23 is 2'-O-methyl-2'-deoxyadenine.

(ix) FEATURE:
 (D) OTHER INFORMATION: U at position 30 is 2'-O-methyl-2'-deoxyuridine.

(ix) FEATURE:
 (D) OTHER INFORMATION: U at positions 6 and 20 is 2'-fluoro-2'-deoxyuridine.

(ix) FEATURE:
 (D) OTHER INFORMATION: C at positions 21, 28 and 29 is 2'-fluoro-2'-deoxycytidine.

(ix) FEATURE:
 (D) OTHER INFORMATION: N at positions 10 and 23 is pentaethylene glycol phosphoramidite spacer.

(ix) FEATURE:
 (D) OTHER INFORMATION: Nucleotide 32 is an inverted orientation T (3'-3' linked)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 176:
 CAGGCUACGN CGTAGAGCAU CANTGATCCU GT

32

(2) INFORMATION FOR SEQ ID NO: 177:

(i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 39 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: DNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: Nucleotide 39 is an
 inverted orientation T (3'-3' linked)
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 177:
 CAGTCCGTGG TAGGGCAGGT TGGGGTGACT TCGTGAAT 39

(2) INFORMATION FOR SEQ ID NO: 178:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 37 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: DNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: T at positions 13, 14,
 16 and 17 is substituted with IdU.
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 178:
 TGGGAGGGCG CGTTCCTTCGT GGTTACTTTT AGTCCCG 37

(2) INFORMATION FOR SEQ ID NO: 179:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 37 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: DNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: T at position 20 is substituted with IdU.
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 179:
 TGGGAGGGCG CGTTCCTTCGT GGTTACTTTT AGTCCCG 37

(2) INFORMATION FOR SEQ ID NO: 180:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 37 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: DNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: T at position 23 is substituted with IdU.
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 180:
 TGGGAGGGCG CGTTCCTTCGT GGTTACTTTT AGTCCCG 37

(2) INFORMATION FOR SEQ ID NO: 181:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 37 base pairs

(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: DNA
(ix) FEATURE:
(D) OTHER INFORMATION: T at position 24 is substituted with IdU.
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 181:
TGGGAGGGCG CGTTCTTCGT GGTTACTTTT AGTCCCG 37

(2) INFORMATION FOR SEQ ID NO: 182:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 37 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: DNA
(ix) FEATURE:
(D) OTHER INFORMATION: T at position 27 is substituted with IdU.
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 182:
TGGGAGGGCG CGTTCTTCGT GGTTACTTTT AGTCCCG 37

(2) INFORMATION FOR SEQ ID NO: 183:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 37 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: DNA
(ix) FEATURE:
(D) OTHER INFORMATION: T at positions 28-30 is substituted with IdU.
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 183:
TGGGAGGGCG CGTTCTTCGT GGTTACTTTT AGTCCCG 37

(2) INFORMATION FOR SEQ ID NO: 184:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 37 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: DNA
(ix) FEATURE:
(D) OTHER INFORMATION: T at position 33 is substituted with IdU.
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 184:
TGGGAGGGCG CGTTCTTCGT GGTTACTTTT AGTCCCG 37

(2) INFORMATION FOR SEQ ID NO: 185:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 7 amino acids
(B) TYPE: amino acid
(C) STRANDEDNESS:
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: Peptide

(ix) FEATURE:

(D) OTHER INFORMATION: Xaa at position 5 is a modified amino acid
that could not be identified.

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 185:

Lys Lys Pro Ile Xaa Lys Lys

5

(2) INFORMATION FOR SEQ ID NO: 186:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 71 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 186:

GGGAGGACGA UGCGGNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
NNNNNCAGAC GACUCGCCCCG A

50

71

(2) INFORMATION FOR SEQ ID NO: 187:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 32 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 187:

TAATACGACT CACTATAGGG AGGACGATGC GG

32

(2) INFORMATION FOR SEQ ID NO: 188:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 16 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 188:

TCGGGCGAGT CGTCTG

16

(2) INFORMATION FOR SEQ ID NO: 189:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 71 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-NH₂ modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 189:

GGGAGGACGA UGCGGGAAGG GACGAUAAAG AGGAAUCGAA CAACAAGUGG
CUGGCCAGAC GACUCGCCCCG A

50

71

(2) INFORMATION FOR SEQ ID NO: 190:

(i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 71 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-NH₂ modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 190:
 GGGAGGACGA UGCGGGCGGG AAGGUCCGAA GACCGGCGAA AGGAACGAGA 50
 UUGCCCAGAC GACUCGCCCCG A 71

(2) INFORMATION FOR SEQ ID NO:191:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 70 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-NH₂ modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:191:
 GGGAGGACGA UGCGGGUGGU GAAGAGGUAC CGGAAUUGCU AAAGAUACCA 50
 GGCCCAGACG ACUCGCCCCG 71

(2) INFORMATION FOR SEQ ID NO: 192:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 71 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-NH₂ modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:192:
 GGGAGGACGA UGCGGGCAGG GAGCAAUGAA CUCAAGUCAA GCCGGUGCAC 50
 GUGGGCAGAC GACUCGCCCCG A 71

(2) INFORMATION FOR SEQ ID NO:193:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 71 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-NH₂ modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:193:
 GGGAGGACGA UGCGGUAGCU GCUGUCAUGC AAGACACUAG AAGAUUAAGA 50
 UGGGGCAGAC GACUCGCCCCG A 71

(2) INFORMATION FOR SEQ ID NO:194:

(i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 74 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-NH₂ modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:194:
 GGGAGGACGA UCGGGGGGCC GGAUUUGAAC CGACGACUUC GGGUUAUGAG 50
 CCCGACGUCA GACGACUCGC CCGA 74

(2) INFORMATION FOR SEQ ID NO: 195:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 71 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-NH₂ modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 195:
 GGGAGGACGA UCGGUCCAG GGAUUGAAGU GUCGGGGUAG GAACAUAAAG 50
 GCGGCCAGAC GACUCGCCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 196:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 70 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-NH₂ modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 196:
 GGGAGGACGA UCGGGAAGUU CUAACAAGUU AGUGGAAGGU UCCACUUGAA 50
 UGUACAGACG ACUCGCCCCG 70

(2) INFORMATION FOR SEQ ID NO: 197:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 44 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-NH₂ modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 197:
 GGGAGGACGA UCGGGAUGGA GCUGAAAUCA GACGACUCGC CCGA 44

(2) INFORMATION FOR SEQ ID NO: 198:
 (i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 71 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-NH₂ modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 198:
 GGGAGGACGA UGCGGGUGGG AAGAUGAGCC GGUCGGCAGU AAUGUGACAC 50
 UGCGGCAGAC GACUCGCCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 199:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 70 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-NH₂ modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 199:
 GGGAGGACGA UGCGGGAGGG AAUGAGGAAA CAACUAGCAG AUAACCGAGC 50
 UGGCCAGACG ACUCGCCCCGA 70

(2) INFORMATION FOR SEQ ID NO: 200:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 44 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-NH₂ modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 200:
 GGGAGGACGA UGCGGAUGGA GCUGAAAUCA GACGACUCGC CCGA 44

(2) INFORMATION FOR SEQ ID NO: 201:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 71 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-NH₂ modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 201:
 GGGAGGACGA UGCGGUUGCU CUACAAUGAC GCGGUGACUC CGCAGUUCUU 50
 GGACACAGAC GACUCGCCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 202:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 71 base pairs

(B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-NH₂ modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 202:
 GGGAGGACGA UGCGGGAGGG GAGAAGAAUG CAGGAAACAG CGAAAUGCGU 50
 GUGGCCAGAC GACUCGCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 203:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 71 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-NH₂ modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 203:
 GGGAGGACGA UGCGGGCGGG AAGAGCUAAU GGAAGUGGAA UCAGUCACAG 50
 UGCGGCAGAC GACUCGCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 204:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 57 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-NH₂ modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 204:
 GGGAGGACGA UGCGGGCUUA GGGAAAUGGU UCUGAGGUGG UCAGACGACU 50
 CGCCCGA 57

(2) INFORMATION FOR SEQ ID NO: 205:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 71 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-NH₂ modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 205:
 GGGAGGACGA UGCGGGAAGG GAACAGGAUA AGACAAGUCG AACAAAGCCG 50
 AGGUGCAGAC GACUCGCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 206:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 44 base pairs

(B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-NH₂ modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 206:
 GGGAGGACGA UGCGGAUGGA GCUGAAAUCA GACGACUCGC CCGA 44

(2) INFORMATION FOR SEQ ID NO: 207:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 71 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-NH₂ modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 207:
 GGGAGGACGA UGCGGGGAGA CGUAGACGGG AACAUAGAAC GAACAUCAAC 50
 GCGGCCAGAC GACUCGCCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 208:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 69 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-NH₂ modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 208:
 GGGAGGACGA UGCGGGAAGU GGAUAGAACA GUCAGAAAUG UAAGCGUGAG 50
 GUGCAGACGA CUCGCCCCG A 69

(2) INFORMATION FOR SEQ ID NO: 209:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 71 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-NH₂ modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 209:
 GGGAGGACGA UGCGGGAAGG GUAGGAAGGU CAAGAGGAAA CAGCGCUUCG 50
 GGGUGCAGAC GACUCGCCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 210:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 70 base pairs
 (B) TYPE: nucleic acid

(C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-NH₂ modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 210:
 GGGAGGACGA UGCGGGGCAA AGGAAGUUGG AAUCGGGACU AAGUAGUGUG 50
 UGGCCAGACG ACUCGCCCCG 70

(2) INFORMATION FOR SEQ ID NO: 211:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 70 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-NH₂ modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 211:
 GGGAGGACGA UGCGGAGAAC CAACAGAGCC CCCUGGUGGU GGGGGAAGGA 50
 UUCUCAGACG ACUCGCCCCG 70

(2) INFORMATION FOR SEQ ID NO: 212:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 70 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-NH₂ modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 212:
 GGGAGGACGA UGCGGACACA CAAGUGAAGG UCAGACGCGA AUUACGUGGG 50
 UGGGCAGACG ACUCGCCCCG 70

(2) INFORMATION FOR SEQ ID NO: 213:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 82 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-NH₂ modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 213:
 GGGAGGACGA UGCGGUCGUG GGGUGGGUGG GGGCAGCGUU GGAAUAAGUA 50
 ACUGGUAACG GCUGGCCAGA CGACUCGCCC GA 82

(2) INFORMATION FOR SEQ ID NO: 214:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 71 base pairs
 (B) TYPE: nucleic acid

(C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-NH₂ modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 214:
 GGGAGGACGA UGCGGGGUGG GUGGUUACCU GUAUUUAUUAU UGAUUCUGGC 50
 UUUAGCAGAC GACUCGCCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 215:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 53 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-NH₂ modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 215:
 GGGAGGACGA UGCGGCCCCU UAGCUCAGUG GUUAGAGCAG ACGACUCGCC 50
 CGA 53

(2) INFORMATION FOR SEQ ID NO: 216:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 74 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-NH₂ modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 216:
 GGGAGGACGA UGCGGUAACG UGGAUAGGG UUAACAGCU GGAAUAACG 50
 UAGGUGGCCA GACGACUCGC CCGA 74

(2) INFORMATION FOR SEQ ID NO: 217:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 71 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-NH₂ modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 217:
 GGGAGGACGA UGCGGGUAGG GAGUAGGACA GACAUACAG UGCAACCAUC 50
 GUGGCCAGAC GACUCGCCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 218:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 73 base pairs
 (B) TYPE: nucleic acid

(C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-NH₂ modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 218:
 GGGAGGACGA UGCGGAAACG GCGUGGCAAA AGUGAGGGGG UAGGAUGUAC 50
 CAUGGGUCAG ACGACUCGCC CGA 73

(2) INFORMATION FOR SEQ ID NO: 219:

(i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 71 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-NH₂ modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 219:
 GGGAGGACGA UGCGGGAGGG GAAAAUGAGA CCGACAGAUU GACGGAAGUA 50
 CUGGGCAGAC GACUCGCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 220:

(i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 71 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 220:
 GGGAGGACGA UGCGGGCAUU CGUCAUACC UGUUUUUAUU CCUUUUCUAG 50
 CGGCCCAGAC GACUCGCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 221:

(i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 71 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 221:
 GGGAGGACGA UGCGGAUCGU AAUCGCCACU ACUACUUUCC GAACCCGCAC 50
 GUGGCCAGAC GACUCGCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 222:

(i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 70 base pairs
 (B) TYPE: nucleic acid

(C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 222:
 GGGAGGACGA UGCGGCGUCC CGAGUCACGC UGUCCUGAUA ACCUUCUCUG 50
 UGCCCAGACG ACUCGCCCCGA 70

(2) INFORMATION FOR SEQ ID NO:223:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 72 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 223:
 GGGAGGACGA UGCGGGAUCC UUUGUGGGCU CUUGUUGACC CCCUCGUUGU 50
 CCCCCCAGA CGACUCGCCC GA 72

(2) INFORMATION FOR SEQ ID NO: 224:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 71 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 224:
 GGGAGGACGA UGCGGCGGGU ACUCUUCGCC AGCUCCUCCA AGCGCGACCU 50
 GUGCCCAGAC GACUCGCCCC A 71

(2) INFORMATION FOR SEQ ID NO: 225:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 72 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 225:
 GGGAGGACGA UGCGGUUUCG AAUAGGGCCA UUUCUCACUA GCUAUCCUAC 50
 CCUGCCCAGA CGACUCGCCC GA 72

(2) INFORMATION FOR SEQ ID NO: 226:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 71 base pairs
 (B) TYPE: nucleic acid

(C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 226:
 GGGAGGACCA UGCGGAUAAU GGCUAGAACU AGCUCGCAUC UUGGUGUCCG 50
 GUGCCCAGAC GACUCGCCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 227:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 71 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 227:
 GGGAGGACGA UGCGGGACCA GAUGGCGGAU UUUUCAGCAA UCCUCCCCCG 50
 CUGCCCAGAC GACUCGCCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 228:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 70 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 228:
 GGGAGGACGA UGCGGUGAUG GCGACCAGUC AAACCGGUGC UUUUACUCCC 50
 CCGCCAGACG ACUCGCCCCGA 70

(2) INFORMATION FOR SEQ ID NO: 229:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 72 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 229:
 GGGAGGACGA UGCGGGAAUU AACAGGGCCA GAAUUCUCAU CUNNCUCCCC 50
 GUGACCCAGA CGACUCGCCCC GA 72

(2) INFORMATION FOR SEQ ID NO: 230:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 70 base pairs
 (B) TYPE: nucleic acid

(C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 230:
 GGGAGGACGA UGCGGCACCU UAGACCUGUC CUCCAAGCGU GAGUUGCUGU 50
 GGCCCAGACG ACUCGCCCGA 70

(2) INFORMATION FOR SEQ ID NO: 231:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 70 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 231:
 GGGAGGACGA UGCGGUGGUC UCCCAAUUCU AAACUUUCUC CAUCGUAUCU 50
 GGGCCAGACG ACUCGCCCGA 70

(2) INFORMATION FOR SEQ ID NO: 232:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 71 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 232:
 GGGAGGACGA UGCGGUCAUG GUGUCUUUC ACAGCUCUUC CCAUGAUCGC 50
 CCGGCCAGAC GACUCGCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 233:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 71 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 233:
 GGGAGGACGA UGCGGGAUU CCCAGCGUU GACUGAUACA AACNUUCCCG 50
 UGCCCCAGAC GACUCGCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 234:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 70 base pairs
 (B) TYPE: nucleic acid

(C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 234:
 GGGAGGACGA UGCGGCAANN NNNNNCUCUC UCCUGGCGUU CCGCAACCCG 50
 CCCCCAGACG ACUCGCCCCG 70

(2) INFORMATION FOR SEQ ID NO: 235:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 71 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 235:
 GGGAGGACGA UGCGGAGUAU UCCAGCCUGG AUUCAUAGUC AGUGCUCUCC 50
 GUGCCCAGAC GACUCGCCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 236:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 71 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 236:
 GGGAGGACGA UGCGGUCCUA GCAGCGAUUC AUCCCCGUUC UCUCAGCGUU 50
 GCCCCAGAC GACUCGCCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 237:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 71 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 237:
 GGGAGGACGA UGCGGCCUGA AGUACAGGCU CUAACUCCA AGCGCGACCG 50
 UCCGCCAGAC GACUCGCCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 238:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 68 base pairs
 (B) TYPE: nucleic acid

(C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 238:
 GGGAGGACGA UGCGGCCCUA CCACUUUUUC CCUCUACUGU UAUCCUGUCC 50
 CCCAGACGAC UCGCCCGA 68

(2) INFORMATION FOR SEQ ID NO: 239:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 70 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 239:
 GGGAGGACGA UGCGGUGGUC UCCCUAGAUC UACAGCACUU CCAUCGCAUU 50
 GGGCCAGACG ACUCGCCCGA 70

(2) INFORMATION FOR SEQ ID NO: 240:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 69 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 240:
 GGGAGGACGA UGCGGUCAAG CUUAACAGUC UGGCAAUGGC CAUUAUGGCG 50
 CCCCAGACGA CUCGCCCGA 69

(2) INFORMATION FOR SEQ ID NO: 241:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 72 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 241:
 GGGAGGACGA UGCGGCAGUC UGGAUCUCUA UUGGAAUUUA GUCCUCAACU 50
 GUGCCCCAGA CGACUCGCC GA 72

(2) INFORMATION FOR SEQ ID NO: 242:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 71 base pairs
 (B) TYPE: nucleic acid

(C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 242:
 GGGAGGACGA UGCGGGAUUC UUUCGGCAAG UGAAAAUUAU CCUUGCUCUC 50
 CGAGCCAGAC GACUCGCCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 243:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 71 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 243:
 GGGAGGACGA UGCGGGGACU UCAACUAAGU CCUCAUUUGC CUCGCUCUC 50
 GUGCCCAGAC GACUCGCCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 244:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 74 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 244:
 GGGAGGACGA UGCGGAACGG AGAUGUCCCC UCAAMAUUA CCGUCUCCGU 50
 UUGCGCCCCA GACGACUCGC CCGA 74

(2) INFORMATION FOR SEQ ID NO: 245:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 70 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 245:
 GGGAGGACGA UGCGGCGAAA UUAGCUUCU AUGACUCACG UUCCUUGCC 50
 GCCCCAGACG ACUCGCCCCG 70

(2) INFORMATION FOR SEQ ID NO: 246:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 71 base pairs
 (B) TYPE: nucleic acid

(C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 246:
 GGGAGGACGA UGCGGGCCCCG AUCUACUGCA UUACCGAAAC GAUUUCCCCA 50
 CUGUGCAGAC GACUCGCCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 247:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 71 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 247:
 GGGAGGACGA UGCGGNGACU GAUUUUUCCU UGNCAGUGUA AUUUCCUGGC 50
 UGCCCCAGAC GACUCGCCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 248:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 71 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 248:
 GGGAGGACGA UGCGGGGACU UUGACAGGCA UUGAUUUCGA CCUGUCCCC 50
 GUGGCCAGAC GACUCGCCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 249:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 71 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 249:
 GGGAGGACGA UGCGGCGACA CAAUAGCCUU UGAUCCCAUG AUGGCUCGCC 50
 GUGCCCAGAC GACUCGCCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 250:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 71 base pairs
 (B) TYPE: nucleic acid

(C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 250:
 GGGAGGACGA UGCGGUGUAG UUUCCCUGUA UGCCAUUCUU UCCCAUGCCG 50
 CACGCCAGAC GACUCGCCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 251:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 71 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 251:
 GGGAGGACGA UGCGGUCGAG UGUUCUCCUU CGGUAACUAU UNNMNAUUUC 50
 GUGCCCAGAC GACUCGCCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 252:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 71 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 252:
 GGGAGGACGA UGCGGGUGCU AUUCAUCUCC UUGUUCUGUU UCGUUGCACC 50
 UGGCCCAGAC GACUCGCCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 253:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 71 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 253:
 GGGAGGACGA UGCGGGGACU UUGACAGGCA UUGAUUUCGA CGUGUUCCCC 50
 GUGGCCAGAC GACUCGCCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 254:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 69 base pairs
 (B) TYPE: nucleic acid

(C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 254:
 GGGAGGACGA UGCGGUGAUC AAUCGGCGCU UUACUCUUGC GCUCACCGUG 50
 CCCCAGACGA CUCGCCCCGA 69

(2) INFORMATION FOR SEQ ID NO: 255:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 71 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 255:
 GGGAGGACGA UGCGGCAGUC UCCCUAGGUU UCAUCUCUGC AGCAUUCGCG 50
 GGUNCCAGAC GACUCGCCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 256:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 71 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 256:
 GGGAGGACGA UGCGGAUCAA AAGCACUCAU UCCCGUGCUC GCUUCAUUGG 50
 UCCCCCAGAC GACUCGCCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 257:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 74 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 257:
 GGGAGGACGA UGCGGAAGAU CUCCCAACUG CUGUGGCUAA UAAUUCUCUC 50
 CGCGUCCCCA GACGACUCGC CCGA 74

(2) INFORMATION FOR SEQ ID NO: 258:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 70 base pairs

(B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 258:
 GGGAGGACGA UGCGGUCCGU CAUAACGGCC AUAACUGCG AAUACUCCCU 50
 GGCCCAGACG ACUCGCCCCGA 70

(2) INFORMATION FOR SEQ ID NO: 259:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 73 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 259:
 GGGAGGACGA UGCGGGGACA AWYAGCGGUG UCUUUUCAUU UNKAUCCUCC 50
 GACRUCCCAG ACGACUCGCC CGA 73

(2) INFORMATION FOR SEQ ID NO: 260:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 71 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 260:
 GGGAGGACGA UGCGGUGACU AUCUGGCUCG AUCCAAUCAC CCGAGCCCAC 50
 CGCGCCAGAC GACUCGCCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 261:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 71 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 261:
 GGGAGGACGA UGCGGGAACU AAUGGCCGUG AUUAACCAAU GCAGGCUUCC 50
 UGCGCCAGAC GACUCGCCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 262:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 73 base pairs

(B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 262:
 GGGAGGACGA UGCGGUGACA UGGAAUUUUC UACGGGCCCG AUCCUGCCAG 50
 CCGUGUGCAG ACGACUCGCC CGA 73

(2) INFORMATION FOR SEQ ID NO: 263:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 13 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-NH₂ modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 263:
 GGAANYAANR CRR 13

(2) INFORMATION FOR SEQ ID NO: 264:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 9 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-NH₂ modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 264:
 GGAANYTGA 9

(2) INFORMATION FOR SEQ ID NO: 265:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 76 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All C's are 2'-NH₂ 2 cytosine
 (ix) FEATURE:
 (D) OTHER INFORMATION: All U's are 2'-NH₂ 2 uracil
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 265:
 GGGAGACAAG AAUAACGCUC AAGUAGACUA AUGUGUGGAA GACAGCGGGU 50
 GGUUCGACAG GAGGCUCACA ACAGGC 76

(2) INFORMATION FOR SEQ ID NO: 266:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 26 base pairs

(B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All C's are 2'-NH₂ 2 cytosine
 (ix) FEATURE:
 (D) OTHER INFORMATION: All U's are 2'-NH₂ 2 uracil
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 266:
 GGUGUGUGGA AGACAGCGGG UGGUUC

26

(2) INFORMATION FOR SEQ ID NO: 267:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 35 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All U's and C's are 2'- deoxy-2'-aminouridine
 and 2'-deoxy-2' aminocytidine residues
 (ix) FEATURE:
 (D) OTHER INFORMATION: A at positions 14 and 17 is 2'-deoxy-2'-O-
 methyladenosine
 (ix) FEATURE:
 (D) OTHER INFORMATION: G at positions 5, 6, 22, 23, 24, 26 and 27 is
 2'-deoxy-2'-O-methylguanosine
 (ix) FEATURE:
 (D) OTHER INFORMATION: T at positions 1-4 and 31-35 is 2'-
 deoxythymidine
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:267:
 TTTTGGUGUG UGGAAGACAG CGGGUGGUUC TTTT

35

(2) INFORMATION FOR SEQ ID NO: 268:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 27 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 268:
 GGGAGGSGSG GUYUCYYRRY UYYYSYS

27

(2) INFORMATION FOR SEQ ID NO: 269:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 26 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA

(ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 269:
 RGGRRGRAY Y RSBRYYYYY BSYBSY 26

(2) INFORMATION FOR SEQ ID NO: 270:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 21 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-NH₂ modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 270:
 GGGAAGGAAY AACRRGACC C 21

(2) INFORMATION FOR SEQ ID NO: 271:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 11 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-NH₂ modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 271:
 GGAAYGAYGA Y 11

(2) INFORMATION FOR SEQ ID NO: 272:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 49 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 272:
 GGGAGGACGA UGCGGUGGUC UCCCAAUUCU AAACUUUCUC CAUCGUAUC 49

(2) INFORMATION FOR SEQ ID NO: 273:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 47 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 273:
 GGGAGGACGA UGCGGUGGUC UCCCAAUUCU AAACUUUCUC CAUCGUA 47

(2) INFORMATION FOR SEQ ID NO: 274:

- (i) SEQUENCE CHARACTERIZATION:
 - (A) LENGTH: 45 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA
- (ix) FEATURE:
 - (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 274:
 GGGAGGACUG CGGUGGUCUC CCAAUUCUAA ACUUUCUCCA UCGUA 45

(2) INFORMATION FOR SEQ ID NO: 275:

- (i) SEQUENCE CHARACTERIZATION:
 - (A) LENGTH: 45 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA
- (ix) FEATURE:
 - (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 275:
 GGGAGGACGA UGCGGUGGUC UCCCCUAAAC UUUCUCCAUC GUAUC 45

(2) INFORMATION FOR SEQ ID NO: 276:

- (i) SEQUENCE CHARACTERIZATION:
 - (A) LENGTH: 45 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA
- (ix) FEATURE:
 - (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 276:
 GGGAGGACGA UGCGGUGGUC UCCCAAUUCU AUUCUCCAUC GUAUC 45

(2) INFORMATION FOR SEQ ID NO: 277:

- (i) SEQUENCE CHARACTERIZATION:
 - (A) LENGTH: 45 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA
- (ix) FEATURE:
 - (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 277:
 GGGAGGACGA UGCGGUGGUC UCCCAAUUCU AAACUCCAUC GUAUC 45

(2) INFORMATION FOR SEQ ID NO: 278:

- (i) SEQUENCE CHARACTERIZATION:
 - (A) LENGTH: 42 base pairs
 - (B) TYPE: nucleic acid

(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: RNA
(ix) FEATURE:
(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 278:
GGGAGGACGA UGCGGUGGUC UCCCAAUUA CUCCAUCGUA UC 42

(2) INFORMATION FOR SEQ ID NO: 279:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 47 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: RNA
(ix) FEATURE:
(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 279:
GAGGACGAUG CGGUGGUCUC CCAAUUCUAA ACUUUCUCCA UCGUAUC 47

(2) INFORMATION FOR SEQ ID NO: 280:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 42 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: RNA
(ix) FEATURE:
(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 280:
GGGAGGACGA UGCGGUGGUC UCCCAAUUUU CUCCAUCGUA UC 42

(2) INFORMATION FOR SEQ ID NO: 281:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 41 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: RNA
(ix) FEATURE:
(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 281:
GGGAGGACGA UGCGGUGGUC UCCCAAUUCU ACCAUCGUAU C 41

(2) INFORMATION FOR SEQ ID NO: 282:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 44 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: RNA
(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 282:
GGAGGACGAU GCGGUGGUCU CCCAAUUCUA UUCUCCAUCG UAUC 44

(2) INFORMATION FOR SEQ ID NO: 283:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 43 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 283:
GGAGGACGAU GCGGUGGUCU CCAAUUCUAU UCUCCAUCGU AUC 43

(2) INFORMATION FOR SEQ ID NO: 284:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 43 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 284:
GAGGACGAUG CGGUGGUCUC CCAAUUCUAU UCUCCAUCGU AUC 43

(2) INFORMATION FOR SEQ ID NO: 285:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 41 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 285:
GAGGACGAUG CGGUGGUCUC AAUUCUAUUC UCCAUCGUAU C 41

(2) INFORMATION FOR SEQ ID NO: 286:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 44 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 286:
GGGAGGCGAU GCGGUGGUCU CCCAAUUCUA UUCUCCAUCG UAUC 44

(2) INFORMATION FOR SEQ ID NO: 287:

- (i) SEQUENCE CHARACTERIZATION:
 - (A) LENGTH: 44 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA
- (ix) FEATURE:
 - (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 287:
GGGAGGACGA UGCGGUGGUC UCCCAAUUCU AUCUCCAUCG UAUC 44

(2) INFORMATION FOR SEQ ID NO: 288:

- (i) SEQUENCE CHARACTERIZATION:
 - (A) LENGTH: 43 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA
- (ix) FEATURE:
 - (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 288:
GGGAGGACGA UGCGGUGGUC UCCCAAUUCU ACUCCAUCGU AUC 43

(2) INFORMATION FOR SEQ ID NO: 289:

- (i) SEQUENCE CHARACTERIZATION:
 - (A) LENGTH: 42 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA
- (ix) FEATURE:
 - (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 289:
GGGAGGACGA UGCGGUGGUC UCCCAAUUCU AUCCAUCGUA UC 42

(2) INFORMATION FOR SEQ ID NO: 290:

- (i) SEQUENCE CHARACTERIZATION:
 - (A) LENGTH: 44 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA
- (ix) FEATURE:
 - (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 290:
GGGAGGACGA UGCGGUGGUC UCCCAAUUCU UUCUCCAUCG UAUC 44

(2) INFORMATION FOR SEQ ID NO: 291:

- (i) SEQUENCE CHARACTERIZATION:
 - (A) LENGTH: 43 base pairs
 - (B) TYPE: nucleic acid

(C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 291:
 GGGAGGACGA UGCGGUGGUC UCCCAAUUCU UCUCCAUCGU AUC 43

(2) INFORMATION FOR SEQ ID NO: 292:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 41 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 292:
 GGGGACGAUG CGUGGGCCCC AAUUCUAUUC UCCAUCGUAU C 41

(2) INFORMATION FOR SEQ ID NO: 293:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 39 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 293:
 GGGACGAUGC GGUGGCCCAA UUCUAUUCUC CAUCGUAUC 39

(2) INFORMATION FOR SEQ ID NO: 294:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 37 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 294:
 GACGAUGC GG UGGCCCAAU CUAUUCUCCA UCGUAUC 37

(2) INFORMATION FOR SEQ ID NO: 295:
 (i) SEQUENCE CHARACTERIZATION:
 (A) LENGTH: 38 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULAR TYPE: RNA
 (ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 295:
GGACGAUGCG GUGGCCCAAU UCUAUUCUCC AUCGUAUC 38

(2) INFORMATION FOR SEQ ID NO: 296:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 34 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: RNA
(ix) FEATURE:
(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 296:
GAUGCGGUGG CCCAAUUCUA UUCUCCAUCG UAUC 34

(2) INFORMATION FOR SEQ ID NO: 297:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 37 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: RNA
(ix) FEATURE:
(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 297:
GAUGCGGUGG UCUCCAAUU CUAUUCUCCA UCGUAUC 37

(2) INFORMATION FOR SEQ ID NO: 298:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 32 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: RNA
(ix) FEATURE:
(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 298:
GGUGGUCUCC CAAUUCUAUU CUCCAUCGUA UC 32

(2) INFORMATION FOR SEQ ID NO: 299:
(i) SEQUENCE CHARACTERIZATION:
(A) LENGTH: 12 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: RNA
(ix) FEATURE:
(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 299:
GGGAGGACGA UG 12

(2) INFORMATION FOR SEQ ID NO: 300:

- (i) SEQUENCE CHARACTERIZATION:
 - (A) LENGTH: 42 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA
- (ix) FEATURE:
 - (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 300:
GGGAGGACGA UGCGGUGGUC UCCCAAUUCU CUCCAUCGUA UC 42

(2) INFORMATION FOR SEQ ID NO: 301:

- (i) SEQUENCE CHARACTERIZATION:
 - (A) LENGTH: 41 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA
- (ix) FEATURE:
 - (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 301:
GGGAGGACGA UGCGGUGUCU CCAAUUCUU CUCAUCGUAU C 41

(2) INFORMATION FOR SEQ ID NO: 302:

- (i) SEQUENCE CHARACTERIZATION:
 - (A) LENGTH: 41 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA
- (ix) FEATURE:
 - (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 302:
GGGAGGACGA UGCGGGGUCU CCAAUUCUU CUCCUCGUAU C 41

(2) INFORMATION FOR SEQ ID NO: 303:

- (i) SEQUENCE CHARACTERIZATION:
 - (A) LENGTH: 39 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: RNA
- (ix) FEATURE:
 - (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 303:
GGGAGGACGA UGCGGGUCUC CCAAUUCUUC UCUCGUAU C 39

(2) INFORMATION FOR SEQ ID NO: 304:

- (i) SEQUENCE CHARACTERIZATION:
 - (A) LENGTH: 43 base pairs
 - (B) TYPE: nucleic acid

(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULAR TYPE: RNA
(ix) FEATURE:
(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 304:
GGGAGUACGA UGCGGUGGUC UCCCAAUUCU UCUCCAUCGU AUC